

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 4. (Canceled)

5. (Previously Presented) A cooler for cooling both sides of one or more semiconductor devices, the cooler comprising:

a plurality of flat cooling tubes each disposed at each of both sides of each of said semiconductor devices to form a stack in which the semiconductor devices and the flat cooling tubes are stacked alternately on one another in a stacking direction, each flat cooling tube having both end portions located in a direction perpendicular to the stacking direction when the stack is formed;

an inlet header having a cooling channel through which a coolant is supplied and passed for cooling the semiconductor devices of the stack;

an outlet header having a further cooling channel through which the coolant is collected; and

a pressing mechanism generating a pressing force to press the stack of said semiconductor devices and said flat cooling tubes,

wherein each of the inlet and outlet headers includes

an end portion extended from each of both ends of each flat cooling tube in the direction perpendicular to the stacking direction,

the end portion having an opening portion in each flat cooling tube which is opened along the stacking direction and is connected in a liquid tight manner with an adjacent flat cooling tube and a diaphragm portion which is formed around the opening portion and is deformable under said pressing force along the stacking direction,

wherein an end of the opening portion in a direction perpendicular to the stacking direction is connected in a liquid tight manner with another end of another opening portion of an adjacent flat cooling tube.

6. (Original) The cooler according to claim 5, wherein said flat cooling tube is made of two press-formed metal plates including a cup-shaped portion brazed face to face to form a tube.

7. (Original) The cooler according to claim 5, wherein said flat cooling tube is made of two press-formed metal plates of the same shape which are brazed face to face to form a tube.

8. - 9. (Canceled)